

WHAT IS CLAIMED IS:

1. A system for identifying an electrical short in a flowing electrolyte battery wherein the system comprises:

-means associated with the flowing electrolyte battery for detecting
direction of current flow through a battery, wherein the flow of current in a first
direction is indicative of proper current flow and the flow of current in a second
direction is indicative of an electrical short within at least a portion of the battery;
and

-means for ceasing current flow upon detection of current flow in the
second direction.

2. The system according to claim 1 wherein the flow detection means includes a device capable of sensing an electro-magnetic field associated with at least a portion of the battery.
3. The system according to claim 2 wherein the flow detection means is associated with at least one electrical conduit associated with the flowing electrical battery.
4. The system according to claim 3 wherein the electrical conduit comprises a wire or cable.
5. The system according to claim 2 wherein the flow detection means includes a ring sensor.

6. The system according to claim 1, wherein the flow detection means is associated with an electrical conduit.
7. The system according to claim 1 wherein the flow detection means includes at least one of a digital or analogue sensor.
8. The invention according to claim 1 wherein the system further includes means for identifying the direction of current flow.
9. The system according to claim 1 wherein the identifying means includes an audible signal upon detection by the detecting means of the flow of current in the second direction.
10. The system according to claim 1 wherein the identifying means includes a visual signal upon detection by the detecting means of the flow of current in the second direction.
11. The system according to claim 1 wherein the identifying means includes an audible signal and a visual signal upon detection by the detecting means of the flow of current in the second direction.
12. The system according to claim 1 whereby the means for ceasing the flow of electric current comprises at least one of an electrical, electro-mechanical or mechanical switch.

13. A system for identifying an electrical short in a flowing electrolyte battery wherein the system comprises:

-means associated with the flowing electrolyte battery for detecting direction of current flow through a battery, wherein the flow of current in a first direction is indicative of proper current flow and the flow of current in a second direction is indicative of an electrical short within at least a portion of the battery;

-means for ceasing current flow upon detection of current flow in the second direction; and

-means for identifying the direction of current flow.

14. The system according to claim 13 wherein the flow detection means includes a device capable of sensing an electro-magnetic field associated with at least a portion of the battery.

15. The system according to claim 14 wherein the flow detection means is associated with at least one electrical conduit associated with the flowing electrical battery.

16. The system according to claim 15 wherein the electrical conduit comprises a wire or cable.

17. The system according to claim 14 wherein the flow detection means includes a ring sensor.

18. The system according to claim 13, wherein the flow detection means is associated with an electrical conduit.
19. The system according to claim 13 wherein the flow detection means includes at least one of a digital or analogue sensor.
20. The system according to claim 13 wherein the identifying means includes an audible signal upon detection by the detecting means of the flow of current in the second direction.
21. The system according to claim 13 wherein the identifying means includes a visual signal upon detection by the detecting means of the flow of current in the second direction.
22. The system according to claim 13 wherein the identifying means includes an audible signal and a visual signal upon detection by the detecting means of the flow of current in the second direction.
23. The system according to claim 13 whereby the means for ceasing the flow of electric current comprises at least one of an electrical, electro-mechanical or mechanical switch.